

FIGURE 1

Phase	Composition, wt % Ni	Pearson symbol	Space group
(Mg)	0	<i>hP2</i>	
Mg ₂ Ni	54.7	<i>hP18</i>	<i>P6₃/mmc</i>
MgNi ₂	82.9	<i>hP24</i>	<i>P6₂22</i>
(Ni)	100	<i>cF4</i>	<i>P6₃/mmc</i> <i>Fm<bar>3}m</bar></i>

Mg-Ni

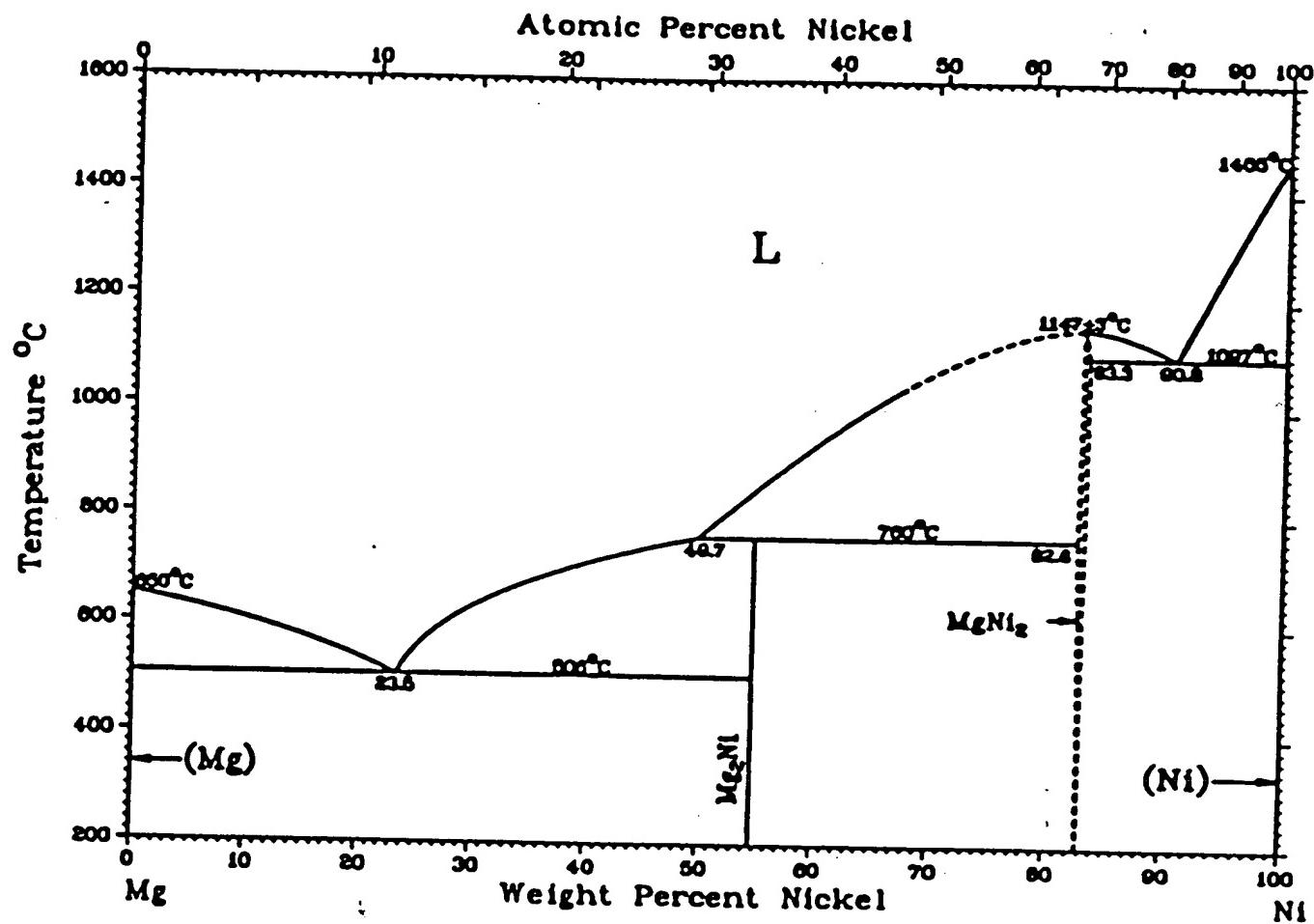


FIGURE 2

Phase	Composition, wt% Mn	Pearson symbol	Space group
(Mg)	0 to 2.2	<i>hP2</i>	
(α Mn)	100	<i>cI58</i>	<i>P6₃/mmc</i>
(β Mn)	100	<i>cP20</i>	<i>I43m</i>
(γ Mn)	100	<i>cF4</i>	<i>P4₁32</i>
(δ Mn)	100	<i>cI2</i>	<i>Fm$\bar{3}m$</i>
			<i>Im$\bar{3}m$</i>

Mg-Mn

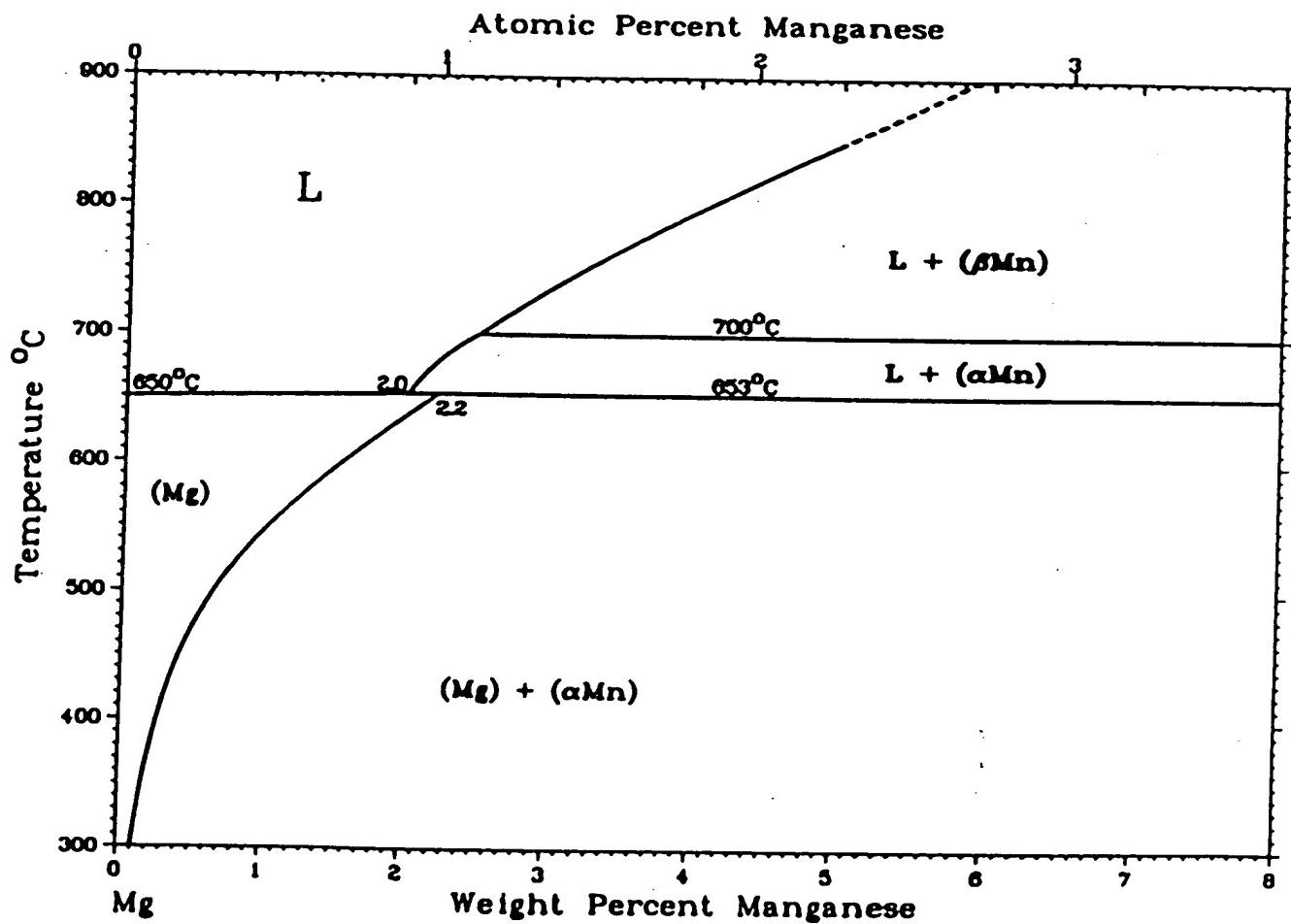


FIGURE 3

Phase	Composition, wt % Si	Pearson symb I	Space group
(Mg)	~0	<i>hP2</i>	
Mg ₂ Si	36.61	<i>cF12</i>	<i>P6₃/mmc</i>
(Si)	~100	<i>cF8</i>	<i>Fm₃m</i> <i>Fd₃m</i>
High-pressure phases			
Mg ₂ Si(a)	36.61	...	
SiII	100
(a) Above ~2.5 GPa and 900 °C, it forms a hexagonal structure.			

Mg-Si

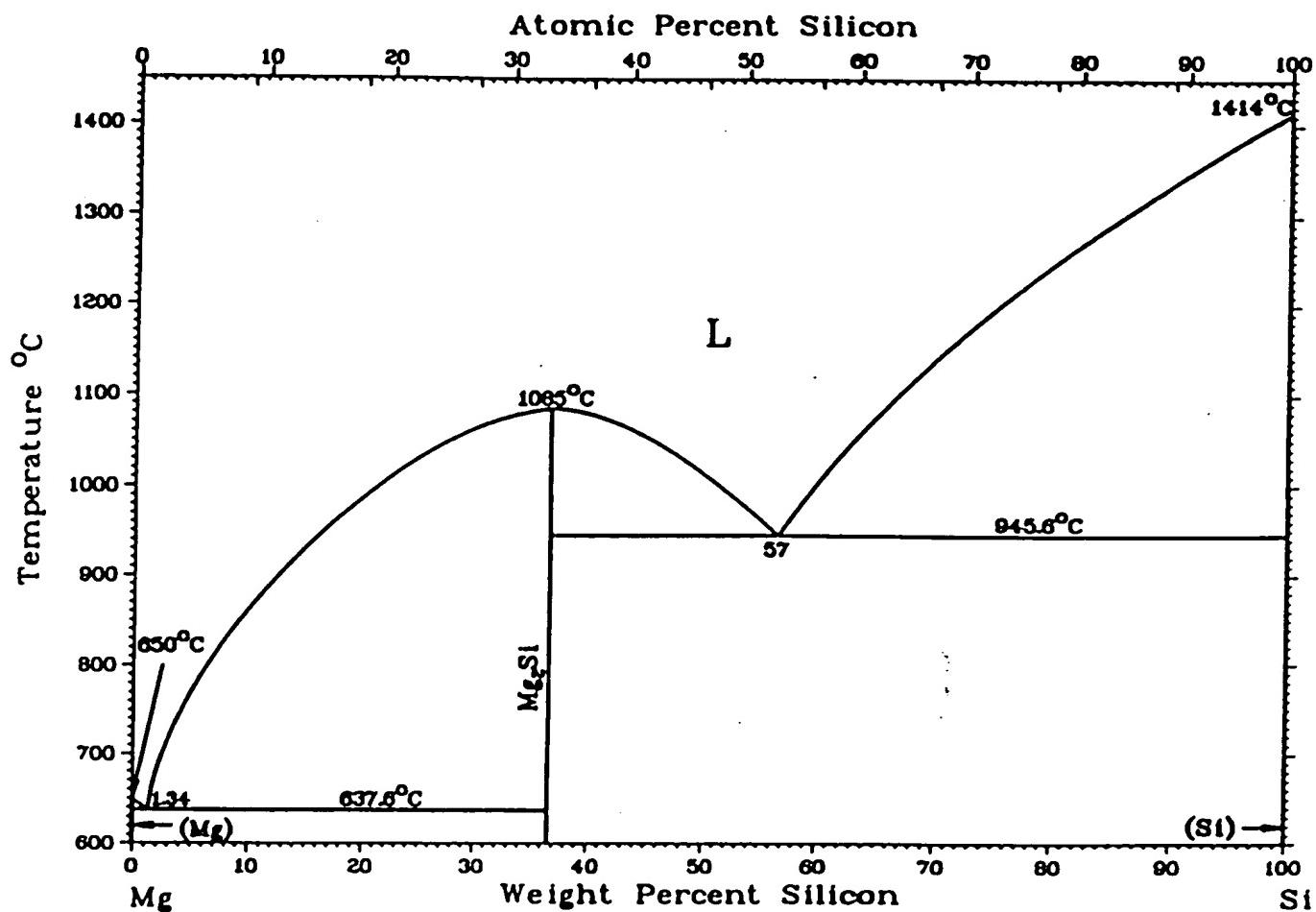


FIGURE 4

Cr-Fe

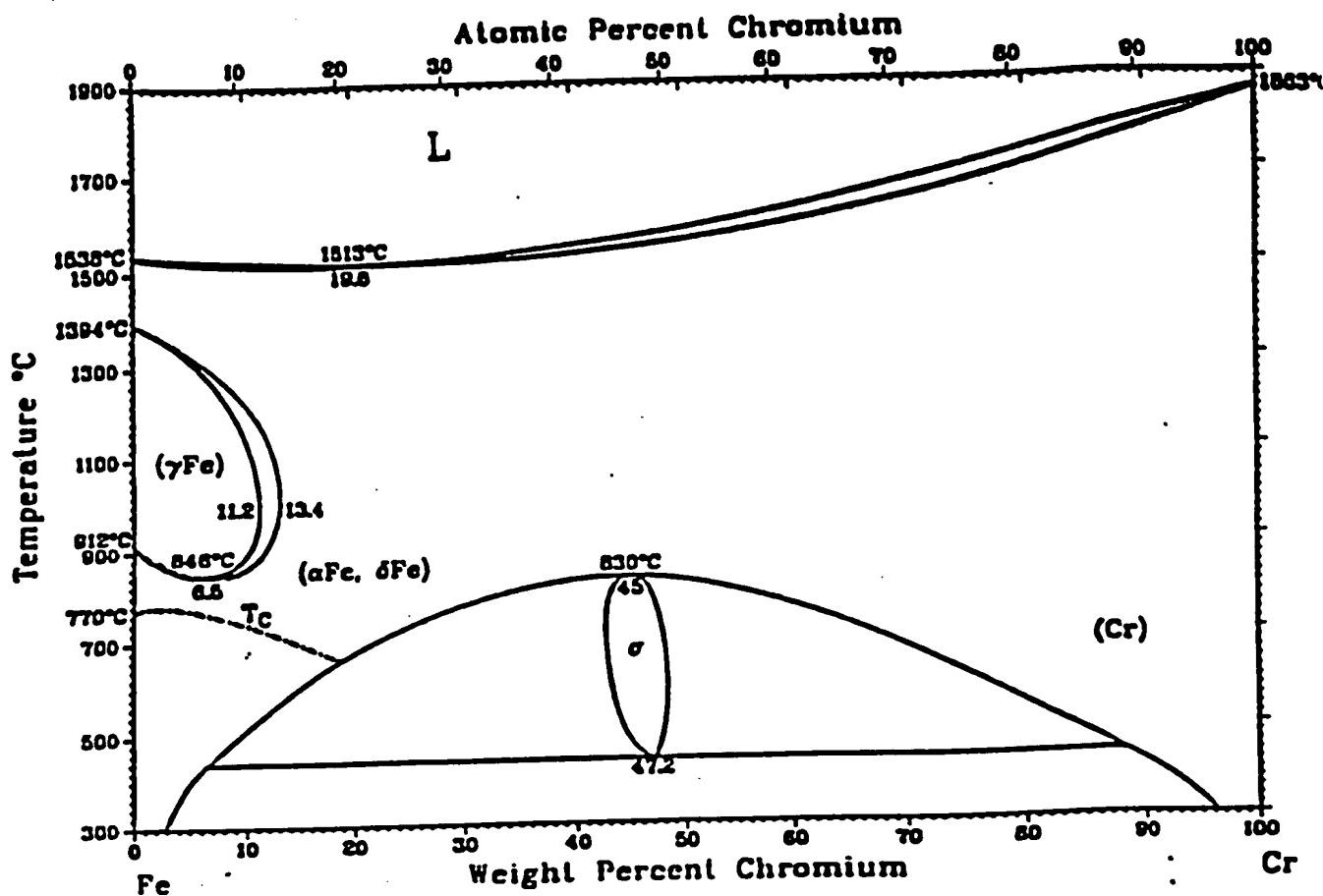
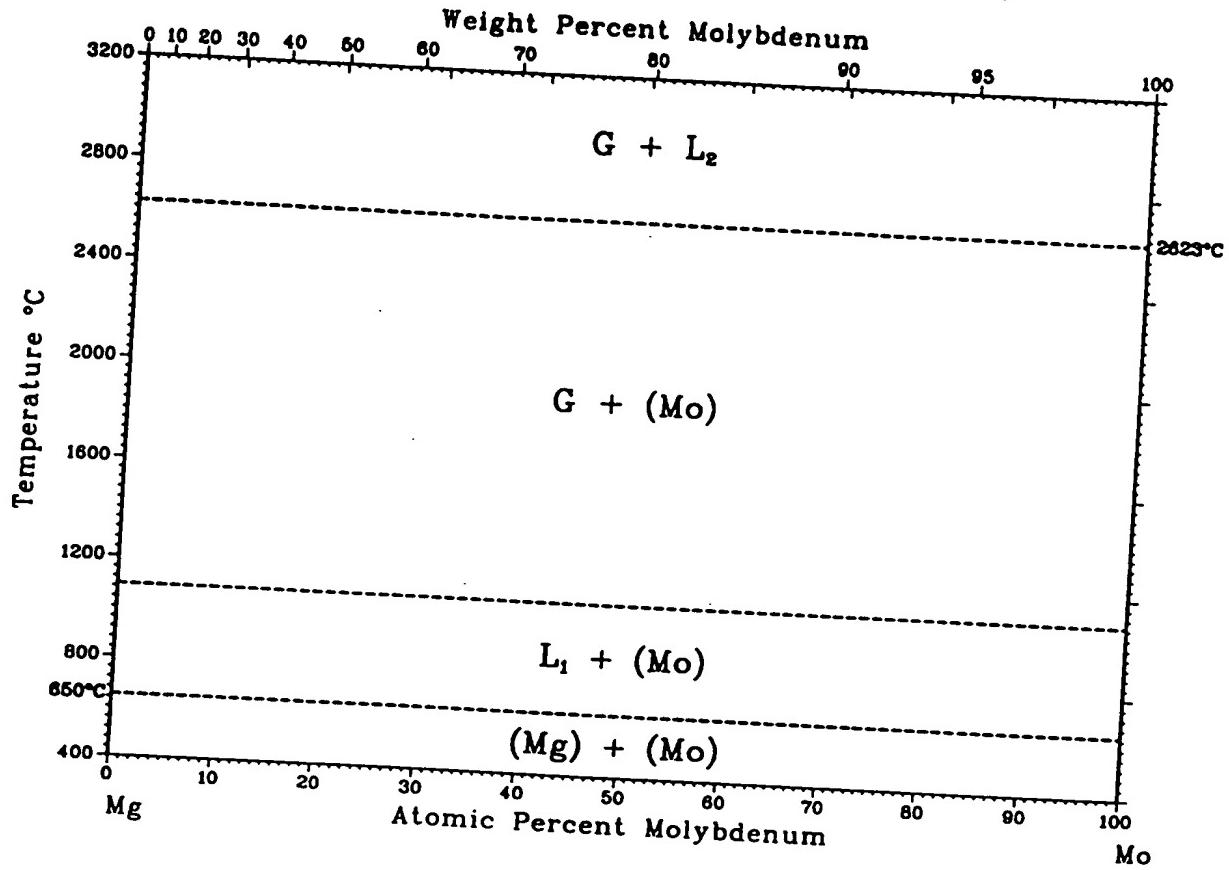
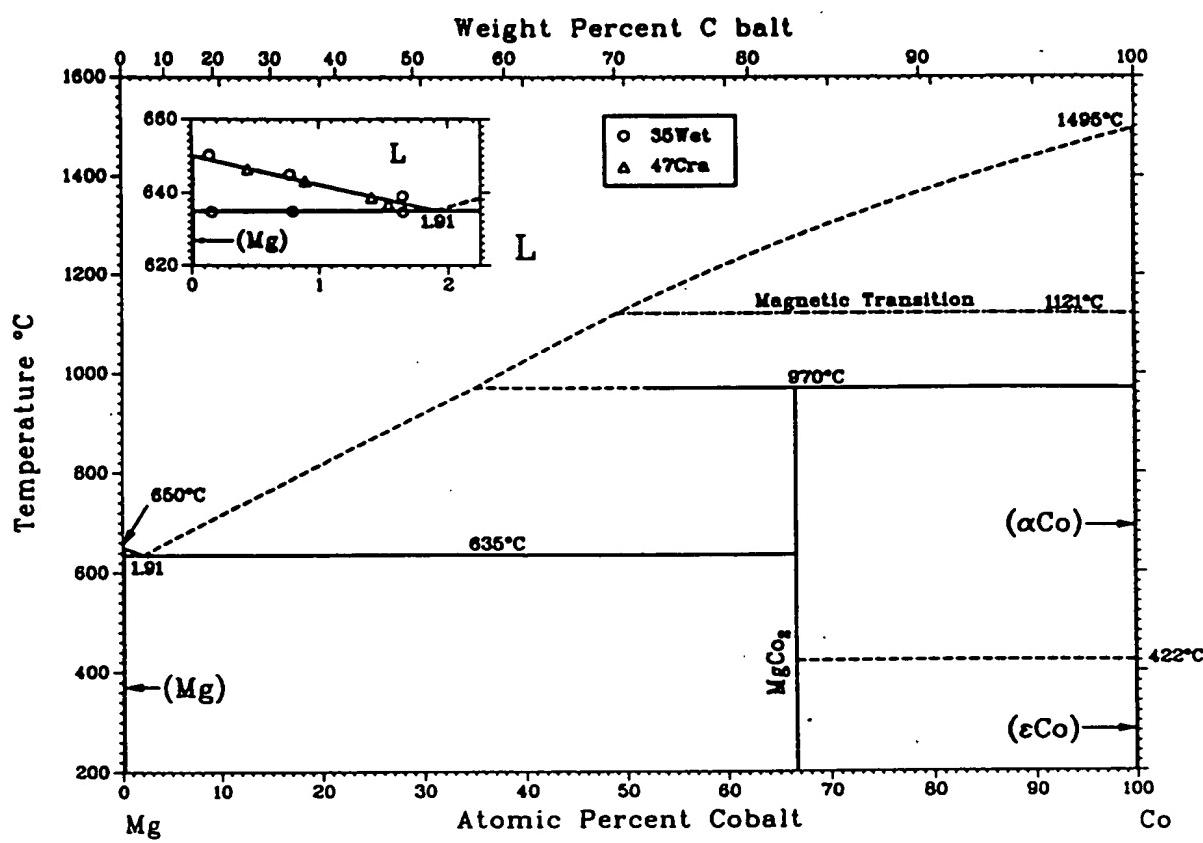


FIGURE 5



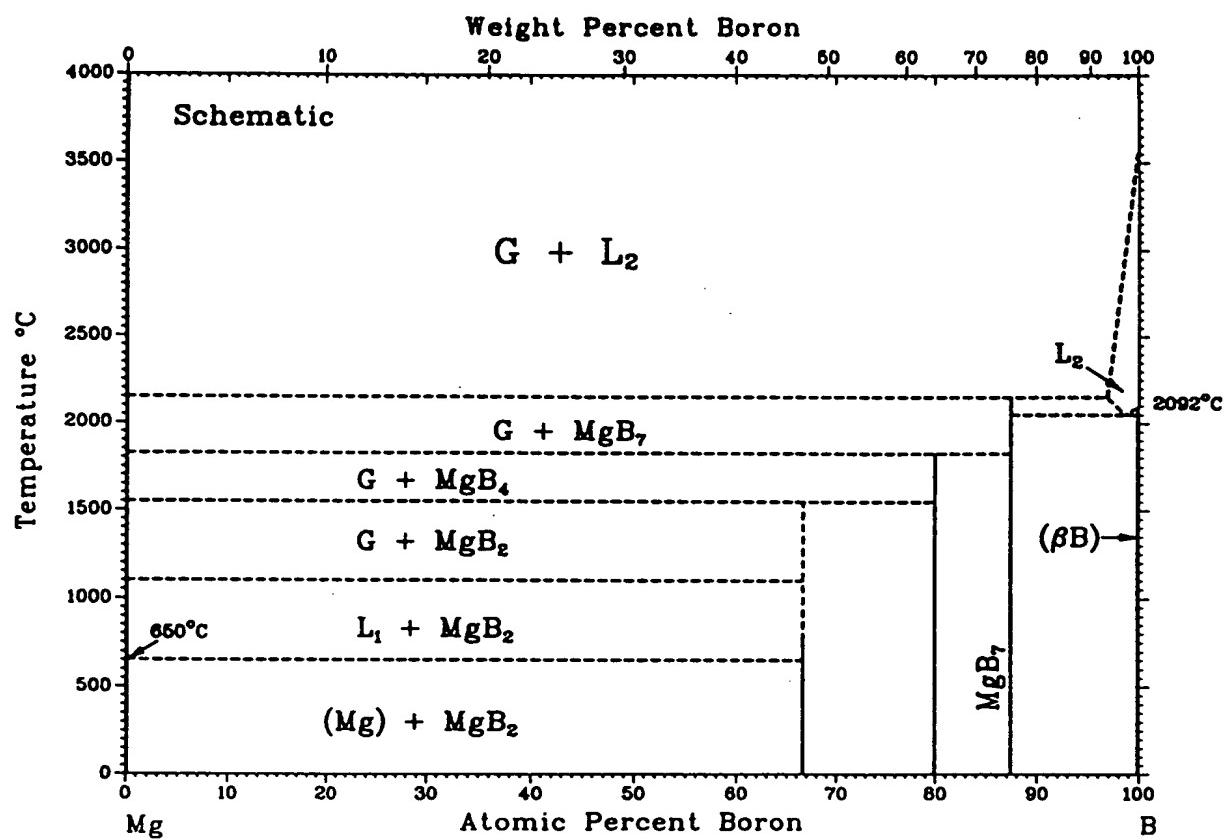
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 6



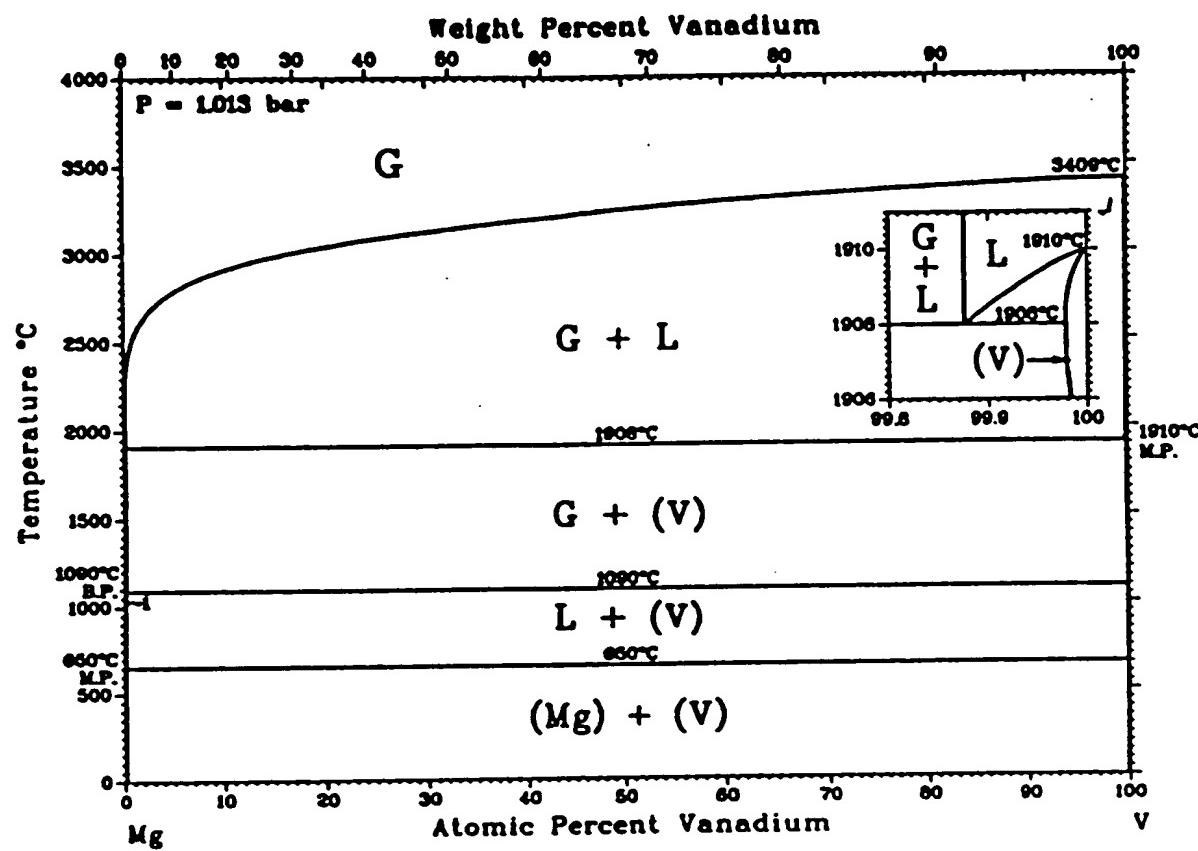
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 7



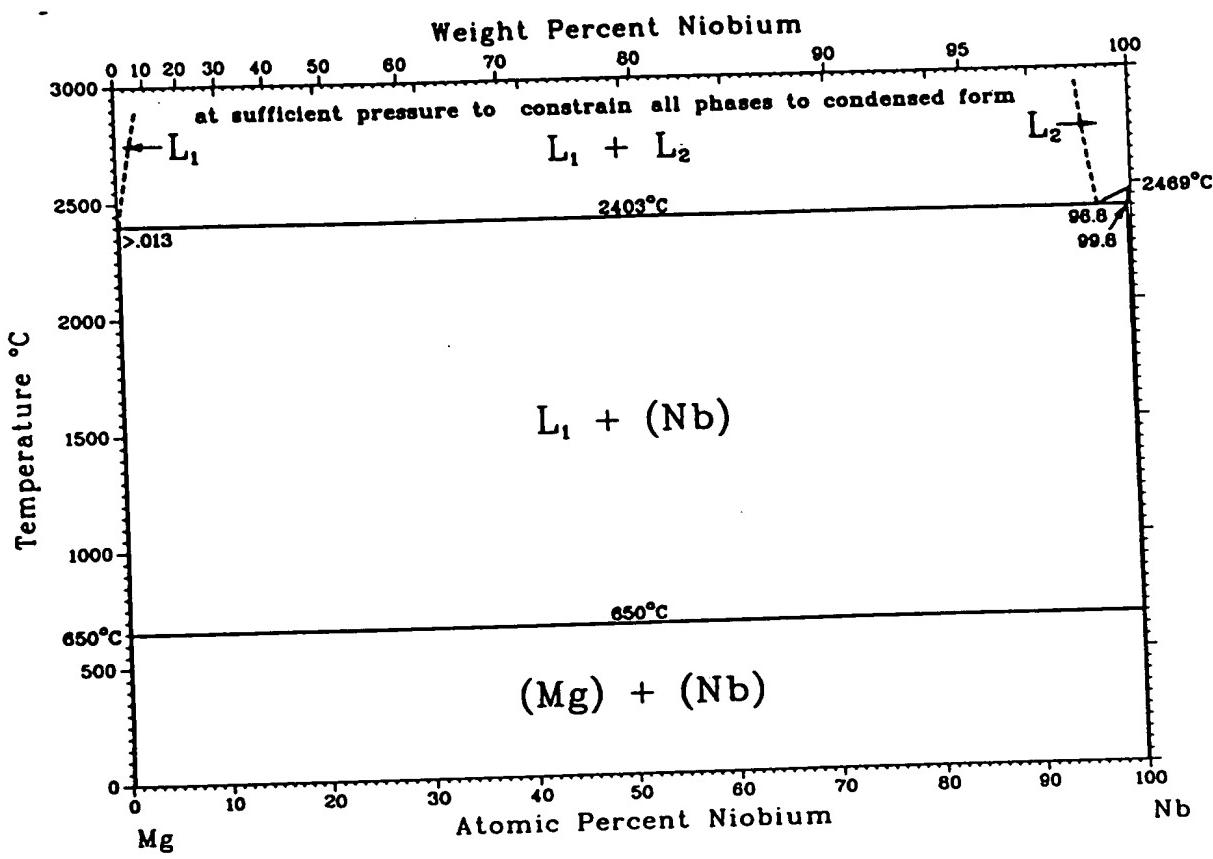
A.A. Nayeb-Hashemi and J.B. Clark, 1988.

FIG. 8



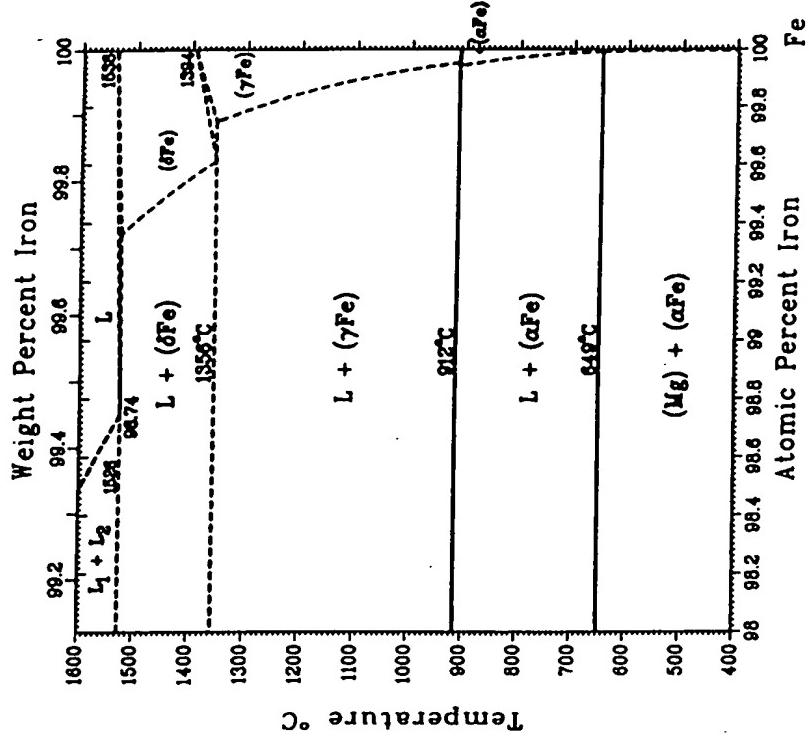
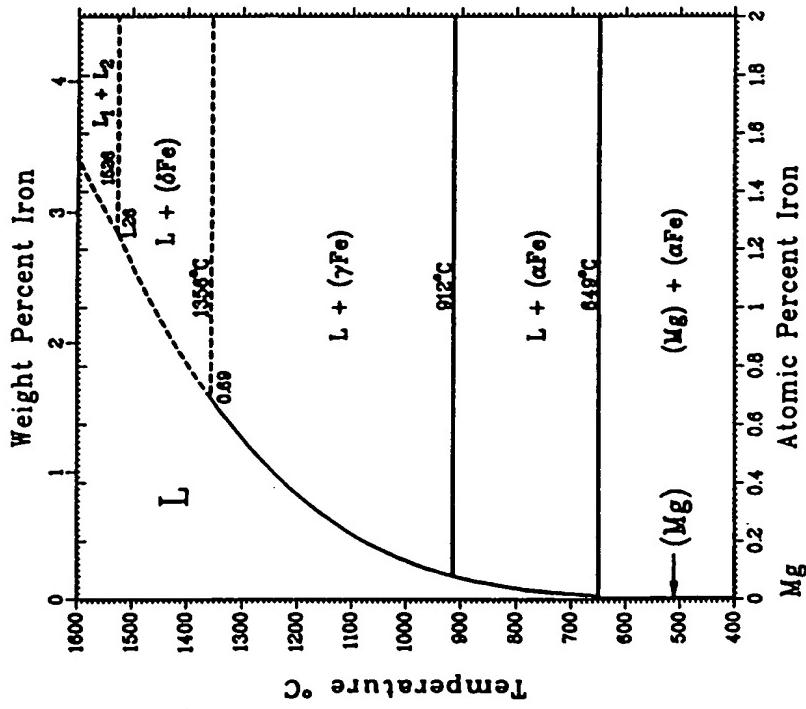
J.F. Smith and K.J. Lee, 1988.

FIG. 9



J.F. Smith, 1988

FIG. 10



A.A. Nayeb-Hashemi, L.J. Swartzendruber, and J.B. Clark, 1988.

FIG. 11